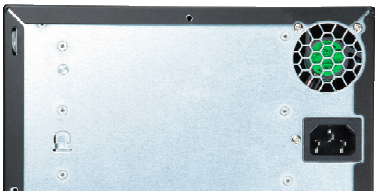
Product Overview
The AC100 is a micro server in the true sense of the word. Sporting server-class specs including ECC memory, Intel Xeon processor support, and an 80 PLUS® high-efficiency power supply, this tiny wonder brings the datacenter to the desk.

Rear view



Front View

Product Specifications

Processors and Chipset
- Intel® Xeon® E3-1200 series processors
- Intel® Core™ i3 series processors
- Intel® Pentium® series processors
- Chipset: Intel® C206

Memory
- Memory capacity:
  - Unbufferred DIMM: 2, 4, 8 GB
- Maximum capacity: up to 16 GB unbuffered DIMMs when fully populated with 1 DIMM per channel in 2 slots

Note: 8 GB DIMM availability may vary by region.

Network Controllers
- Integrated single-port Intel® 82579LM Gigabit Ethernet

Storage
- Hard disk form factor: 3.5”
- Type: SATA
- 3.5” Maximum capacity:
  - Up to 8 TB SATA HDD (2 TB 3.5" x 4 HDDs)

Storage Controllers
- Intel® C206 onboard storage controller

Expansion slots
- 1 x PCIe x8

Management
- System LAN LEDs, System Health LED
- System Health Monitoring

Note: available in AC100S SKU only
- Intel Active Management Technology (Intel vPro)

Note: available in AC100S SKU with Intel Xeon processor only

Security
- Front panel key lock
- Rear Kensington lock hole
- Chassis intrusion

Deployment/Serviceability
- Acer Smart Setup
- BIOS Update Tool

Operating Systems

- Windows Small Business Server 2011 Essentials
- Microsoft Windows Server 2008
- Microsoft Windows Server 2008 R2
- Red Hat Enterprise Linux 6
- SuSE Linux Enterprise Server 11 SP1

Input/output interface

Front

- 2 x USB ports
- Power/off button
- LED indicators: power, system status, HDD activity, LAN

Rear

- 4 x USB 2.0 ports
- eSATA port
- Video port
- Gigabit LAN port

Chassis/Form Factor

- Micro tower

Power Supply

- 200 W 80 PLUS® bronze-level efficient fixed power supply

Regulatory Compliant Standards

- Energy Star® compliant

EMC

- FCC (Class B)
- CE (Class B)
- BSMI (Class B)

Safety

- UL/cUL
- CB
- Nemko/GS

Environmental Specifications

Dimensions	200 (W) x 205 (D) x 205 (H) mm (7.87 (W) x 8.07 (D) x 8.07 (H) inch)	
Weight	Maximum	7.35 kg (16.1 lbs)
	Minimum (includes a single HDD, CPU and RAM, and PSU)	4.7 kg (10.34 lbs)
System inlet temperature	Operating	5°- 40°C (41°- 104°F)
	Non-operating	-20°- 60°C (-4°to 140°F)
Relative humidity	Operating	30 ~ 80%
	Non-operating	5 ~ 95%
Acoustics	Idle	
	LWAd	5.2 BA
	LpAm	34 dBA
	Operating	
	LWAd	5.7 BA
	LpAm	40 dBA
Power	Range line voltage	90~135 VAC 180~264 VAC
	Rated input current	3.5 A (at 100 ~ 127 VAC) 2 A (at 200 ~ 240 VAC)
	Rated input frequency	50 ~ 60 Hz
	Rated input power	200 W
	Supplier to propose power budget for PSU spec setting Fixed 200W 80 PLUS bronze-level high-efficiency power supply.	
BTU rating	682.4 BTU/hr	

Technical specifications

PCIe® specifications

The primary I/O bus for the main board is PCIe Gen2. The following table lists the characteristics of the PCI-E bus segments. Details about each bus segment follow the table.

NOTE: The signaling bit rate of PCI Express is 2.5Gbit/s one direction per lane for Gen 1 and 5.0Gbit/s one direction per lane for Gen 2.

Expansion slot	Number	Type	Bus width[1]	Voltage	Connector	Location	Length
PCIe x8	1	PCIe Gen2	x8	3.3V	x8	Onboard	low-profile

NOTE:

1. Indicates the number of physical electrical lanes running to a PCIe® connector.

2. Default bus assignment (in decimal). Inserting cards with PCI™ bridges may alter the actual bus assignment number.

3. Slots are enumerated differently based on the operating system. Microsoft® operating systems enumerate Device ID by bus starting from the lowest bus to the highest.

Onboard storage specifications

Item	Description
Controller	Intel C206 onboard controller
Simultaneous drive transfer channels	4 x onboard SATA ports 1 x eSATA port
Max throughput per channel	3 Gb/s
Data transfer method	• Non-RAID mode • RAID mode
Drive type supported	Serial ATA
RAID levels support	• RAID 0, 1, 10, 5 (Intel software RAID)
RAID function support	**NOTE**: Intel software RAID only supports Windows OS • Supports multiple logical volumes • Setup through ROM based Array Configuration Utility Installation scripting support
RAID OS support	**NOTE:** This controller does not support hot plug or LED functions • Windows Small Business Server 2011 Essentials • Windows Server® 2008 • Windows Server 2008 R2 • Windows Server 2003
Additional features	• NCQ (Native Command Queuing) AHCI (Advanced Host Controller Interface)

Onboard LAN specifications

Item	Description
Controller	Intel PHY 82579LM

Port number	Single port
Network interface	10Base-T / 100Base-TX / 1000Base-T
Compatibility standards	• IEEE 802.3 Ethernet interface for 10BASE-T • IEEE 802.3ab Ethernet interface for 1000BASE-T • IEEE 802.3u Ethernet interface for 100BASE-TX
Remote boot functionality	Support PXE, iSCSI boot
Connector	RJ-45
Supported cable type	CAT 5e wire

Memory specifications and population

Supported memory types	• Unbuffered DDR3 1066 / 1333 MHz **NOTE:** Acer does not qualify mixed memory configurations of memory type, capacity or make.
Population	Acer's validated memory populations are listed below.

Capacity	DIMM1A	DIMM2A
2 GB	2 GB	
4 GB	2 GB	2 GB
4 GB	4 GB	
8 GB	4 GB	4 GB

Power specifications

200 W Power Supply							
Operational Input Voltage Range (Vrms)	100 to 240						
Frequency Range (Nominal) (Hz)	50 / 60						
Nominal Input Voltage (Vrms)	100	120	200	208	220	230	240
Max. Rated Output Wattage	200.83	200.85	200.87	200.83	200.65	200.65	200.643
Nominal Input Current (A rms)	2.46	2.03	1.21	1.17	1.11	1.06	1.022
Max. Rated Input Wattage Rating	245.37	242.45	237.64	237.34	236.99	236.65	236.389
Max. Rated VA (Volt-Amp)	246.35	244.16	242.98	242.93	243.82	244.72	245.472
Efficiency (%) at Max. Rated Output Wattage	81.85	82.84	84.53	84.62	84.67	84.79	84.880
Power Factor	1.00	0.99	0.98	0.98	0.97	0.97	0.963
Leakage Current (mA)	0.26	0.30	0.56	0.57	0.57	0.61	0.620
Max. Inrush Current (A peak)	58.80	73.60	116.80	127.20	128.80	129.60	132.800
Max. Inrush Current Duration (ms)	0.90	0.90	0.75	0.77	0.77	0.77	0.768
Max. British Thermal Unit Rating (BTU/hr)	1912	1876	1836	1831	1832	1828	1835

Acer server software utilities

Smart Setup 2.0	Easy deployment via the latest version of Acer's Smart Setup. Smart Setup is available both in box as a driver packed installation DVD or a downloadable file to be put into a USB 2.0 device, and eases the deployment of Acer servers for any certified OS. Through its unique interface, users may select to have all the correct drivers be pre-deployed for the OS of their choosing, as well as setup hardware RAID devices, BMC settings (where available), and even clone the pre-settings to a bootable USB device to ease mass server deployments.
IT Smart	Acer IT Smart is an integrated environment available in the AC100 when preloaded with the Windows Small Business Server 2011 Essentials. The software enables quick network management, system health updates, the ability to set office power saving times, and more. Seamlessly integrated with the Windows SBS 2011 Essentials dashboard, IT Smart is a powerful tool for small business. Acer IT Smart contains: • Acer Intel® vPro™ Management* • Acer Fax Notification • Acer Printer Management • Acer Health Monitoring • Acer Power Scheduler

*__Note__: Acer Intel vPro Management functionality only available on SKUs with Intel Xeon processors

AC100 model options

AC100	AC100 standard comes in a wide range of specs to fit any customer need
AC100s	AC100s is preloaded with pre-built RAID and Windows Small Business Server 2011 Essentials. The preload package is the simplest way to deliver strong server functionality in an easy-to-use package, and is perfect for the small office and SOHO environments.

Available options

Processors

Intel® Xeon® E3-1260L (4-core, 2.4 GHz, 45W)

Intel® Core™ i3-2120 (2-core, 3.3 GHz, 65W)

Intel® Core™ i3-2100 (2-core, 3.1 GHz, 65W)

Intel® Pentium® G850 (2-core, 2.9GHz 3M 1066FSB, 65W)*

Intel® Pentium® G840 (2-core, 2.8GHz 3M 1066FSB, 65W)*

Intel® Pentium® G620 (2-core, 2.6GHz 3M 1066FSB, 65W)*

***Note:** Intel Pentium CPUs available after July 2011.

Memory

Memory type	Unbuffered DDR3 ECC memory
Capacities	2 / 4 / 8 GB DIMMs
DIMM number	2
Max memory	16 GB

Note: 8 GB DIMM availability may vary by region.

Hard drives

Type	Interface, bandwidth	Capacities
Consumer SATA	3 Gb/s	500 GB
		1 TB
		1.5 TB
		2.0 TB

Note: 2.0 TB disk availability may vary by region.

Wireless Ethernet network cards

Model	Wireless type
Ralink RT3090 WLAN	802.11 b/g/n 1x1 WLAN PCI-E x1 card

TPM module

TPM module with STMicro chip

Service and support

Acer Servers offer a comprehensive service suite to take care of daily IT needs. Users can select the 1-year standard carry-in warranty or choose extended warranties and services.

In a continuing effort to improve the quality of our products, information in this document is subject to change without notice. Images shown are only representations of some of the configurations available for this model. Availability may vary depending on region.

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NOTE: Extension warranty services may vary by country. Please contact Acer authorized resellers for more information.

Acer Standard Server Models	**Part Number**
Acer AC100S Models	
Acer AC100S Intel Core i3 2100 (2 Cores, 3.1GHz, 3M), 2x2GB Unbuff DDR3, 2x500GB 7.2K SATA, No Keyboard, no Mouse, Microsoft Windows SBS 2011 Essentials with Acer ITSmart, 1 Year Carry-In Warrenty	TT.R7M0F.009
Acer AC100S Intel Xeon E3-1260L (4 Cores, 2.4GHz, 8M), 2x2GB Unbuff DDR3, 2x500GB 7.2K SATA, No Keyboard, No Mouse, Microsoft Windows SBS 2011 Essentials with Acer ITSmart, 1 Year Carry-In Warrenty	TT.R7M0F.010
Acer AC100S Intel Xeon E3-1260L (4 Cores, 2.4GHz, 8M), 2x4GB Unbuff DDR3, 2x1 TB 7.2K SATA, No Keyboard, No Mouse, Microsoft Windows SBS 2011 Essentials with Acer ITSmart, 1 Year Carry-In Warrenty	TT.R7M0F.011
Acer AC100S Intel Xeon E3-1260L (4 Cores, 2.4GHz, 8M), 2x4GB Unbuff DDR3, 2x1.5 TB 7.2K SATA, No Keyboard, No Mouse, Microsoft Windows SBS 2011 Essentials with Acer ITSmart, 1 Year Carry-In Warrenty	TT.R7M0F.012
Acer Key Options	
Acer Memory	
Acer Unbuffered Memory	
Acer 2GB DDR3 – 1333 Unbuffered Memory Kit (1 pc.)	TC.33100.035
Acer 4GB DDR3 – 1333 Unbuffered Memory Kit (1 pc.)	TC.33100.037
Acer Storage	
Acer SATA Hot Plug LFF (3.5 –Inch) Drives	
Acer 320GB 3Gb/s 7.2K 3.5-inch Entry SATA HDD Kit	TC.32700.048
Acer 500GB 3Gb/s 7.2K 3.5-inch Entry SATA HDD Kit	TC.32700.049
Acer 1TB 3Gb/s 7.2K 3.5-inch Entry SATA HDD Kit	TC.32700.052
Acer 320GB 6Gb/s 7.2K 3.5-inch Entry SATA HDD Kit	TC.32700.093
Acer 500GB 6Gb/s 7.2K 3.5-inch Entry SATA HDD Kit	TC.32700.095
Acer 1TB 6Gb/s 7.2K 3.5-inch Entry SATA HDD Kit	TC.32700.097
Acer Additional Upgrades	
Acer 802.11 b/g/n WLAN Card Kit	TC.32200.025
Microsoft Windows SBS Server Standard	
Windows MultiPoint SVR 2011 Std. (64bit,EN) ROK Kit	TC.34400.172
Microsoft Windows SBS Server Premium	
Windows MultiPoint SVR 2011 Prem. (64bit,EN) ROK Kit	TC.34400.180